

STIC Search Report

STIC Database Translation Notice

TO: James Phan Location: JEF-3A19

Art Unit : 2873

Friday, October 14, 2005

Case Serial Number: 10/616530

From: Darcy Bates Location: EIC 2800

JEF-4B68

Phone: 571-272-2540

darcy.bates@uspto.gov

Searon Notes

Re: 10/616,530 US 5,056,892

Attached are search results.

Litigation was found. Docket information and citations are attached.

If more searching or explanation is needed, please let me know.

Thanks,

Darcy Bates



Bates, Darcy

From:

Phan, James

Sent:

Friday, October 14, 2005 1:40 PM

To:

STIC-EIC2800

Cc:

Phan, Hien

Subject:

Litigation Search for US Pat. No. 5,056,892

Hello

Please conduct a litigation search and provide sesults for US Patent Number 5,056,892 of which reissue 10/616,530 has been requested.

Thanks, James Phan



PALM INTRANET

Day: Friday Date: 10/14/2005 Time: 14:24:02

Application Number Information

Application Number: 10/616530 Assignments

Filing or 371(c) Date: 07/10/2003

Effective Date: 07/10/2003

Application Received: 07/11/2003

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: 15518-002001

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION

Confirmation Number: 1942

Examiner Number: 68491 / PHAN, JAMES

Group Art Unit: 2872

IFW IMAGE

Class/Subclass: 359/831.000

Lost Case: NO

Oral Hearing: NO

Waiting for Response Desc. **Prior Art Filed**

Prior Art Filed

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 09/21/2005

Title of Invention: TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
Appln Cor	ntents Petition In				eign Data Inven	
Search An	other: Applicatio	on# -	Search or	Patent#	Search	
	PCT /	/ Sea	or PG	PUBS#	Search	
	Attorney Do			Search		
	Bar Code #		Search			

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Day: Friday Date: 10/14/2005 Time: 14:24:49

Continuity Information for 10/616530

Parent Data

10616530

is a reissue of <u>07472621</u>

Which is a continuation of <u>07218087</u>

Which is a continuation of 06903655

Which is a continuation in part of 06799869

Which is a continuation in part of 06819118

Child Data

No	Child	Data
110	Cillia	Dutu

Appln Info Contents Petition Info	Atty/Age	Data -	Foreign Data Invento	
Search Another: Application#	Searc	h or Patent#	Search	
PCT / /	Search	or PG PUBS#	Search	
Attorney Docket #		Search		
Bar Code#	S	earch		

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PALM INTRANET

Day: Friday Date: 10/14/2005 Time: 14:24:52

Application Number Information

Application Number: 07/472621 Assignments

Filing or 371(c) Date: 01/30/1990

Effective Date: 01/30/1990

Application Received: 01/30/1990

Patent Number: <u>5056892</u> Issue Date: <u>10/15/1991</u>

Date of Abandonment: 00/00/0000

Attorney Docket Number: 40738USA7D

Status: 150 /PATENTED CASE

Confirmation Number: 8611

Examiner Number: 68491 / PHAN, JAMES

Group Art Unit: 2507

Class/Subclass: 999/286.000

Lost Case: NO

Interference Number:
Unmatched Petition: NO
L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 08/14/1991

Oral Hearing: NO

Title of Invention: TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
07472621	28M1	09/29/2005	No Charge to Location	No Charge to Name	NGO,CHAU	JEF/00/C 05

Appln Contents Petition Info Att	y/Agent Info	Continuity Data	Foreign Data (Inventors Ad
Search Another: Application#		or Patent#	Search	
PCT /	Search	or PG PUBS#	Search	
Attorney Docket #		Search		
Bar Code#	Searc	ch		

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Search > Patent Search > Litigation involving patent 5,056,892

Click on the docket number to view the docket. Click on the patent number to view the patent.

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Items 1 to 1 of 3 Court **Date Retrieved Docket Number** Filed Description US-DIS-MND 8/2/2005 Minnesota Mining v. Toshiba Corporation, et al US-DIS-MND 4:95cv911 12/7/1995

Items 1 to 1 of 3

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Item 1 of 3



Docket Tools

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[Email this Docket] [Printer friendly format]

Rulings for this case may be available online. Click here to view available rulings.

View patents concerning this case.

Docket

US District Court Civil Docket

U.S. District - Minnesota (Minneapolis)

4:95cv911

Minnesota Mining v. Toshiba Corporation, et al

This case was retrieved from the court on Friday, October 14, 2005

Date Filed: 12/07/1995

Assigned To: Judge John R Tunheim

Referred To: Magistrate Judge John Milton Mason

Nature of suit: Patent (830)

Cause: Patent Infringement

Lead Docket: None

Other Docket: None

Jurisdiction: Federal Question

Class Code: ATYADM, CLOSED, FRC

Closed: yes

Statute: 28:1338

Jury Demand: None

Demand Amount: \$0

NOS Description: Patent

Litigants

Minnesota Mining And Manufacturing Company **Plaintiff**

Attorneys

Monique Leone Cordray [COR LD NTC] Fish & Richardson Ste 500N 601 13TH St NW Washington, DC 20005 USA (202) 783-5070

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Ralph A Mittelberger [COR LD NTC] Fish & Richardson Ste 500N 601 13TH St NW Washington, DC 20005 USA (202) 783-5070

Stephen W Buckingham [COR LD NTC] 3M Innovative Properties Company PO Box 33427 St Paul, MN 55133-3427 **USA** 651-736-1805 Fax: 651-736-3833

Email: Swbuckingham@mmm.com

Terryl K Qualey [COR LD NTC] Qualey Law Office, LLC 14727 118TH St N Stillwater, MN 55082 **USA** 651-351-0632

Toshiba Corporation A Japanese Corporation, Terminated:

04/04/1996 Defendant

[Term: 04/04/1996]

Michael E Florey [COR LD NTC] [Term: 04/04/1996] Fish & Richardson -MPLS 60 S 6TH St Ste 3300 Minneapolis, MN 55402

USA

(612) 335-5070 Fax: 612-288-9696 Email: Florey@fr.com

Wayne Earl Willenberg

[COR LD NTC] [Term: 04/04/1996] Fish & Richardson 3300 Dain Rauscher Plz 60 S 6TH St

Minneapolis, MN 55402

USA

(612) 335-5070 Fax: 6122889696

Toshiba America Inc A Delaware Corporation, Terminated:

04/04/1996 Defendant

[Term: 04/04/1996]

Toshiba America Information Systems, Inc A California

Corporation, Terminated: 04/04/1996

Defendant

[Term: 04/04/1996]

Toshiba America Electronic Components, Inc A California

Corporation, Terminated: 04/04/1996

Defendant

[Term: 04/04/1996]

International Business Machines Corporation A New York

Corporation, Terminated: 05/15/1996

Defendant

[Term: 05/15/1996]

Documents

Retneve Document(s)

AvailabilityDateNo.Proceeding TextRunner12/07/19951COMPLAINT - Summons issued. Assigned to Judge X per patent list and referred to Magistrate Judge John M. Mason (7 pgs + attachment) (JMR) (Entered: 12/12/1995)Runner12/07/1995Routed pro hac vice request to admission's clerk on behalf of attys., Mittelberger, Cordray, and Phillips (JMR) (Entered: 12/12/1995)Runner12/07/1995Routed admission request to admission clerk on behalf of attys Bovee and Olson (JMR) (Entered: 12/12/1995)Runher01/03/19962PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of plaintiff by atty., Ralph Anthony Mittelberger (1 pg) (JMR) (Entered: 01/03/1996)PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of	 			Items 1 to 9 of 9
Runner 12/07/1995 Judge John M. Mason (7 pgs + attachment) (JMR) (Entered: 12/12/1995) Runner 12/07/1995 Routed pro hac vice request to admission's clerk on behalf of attys., Mittelberger, Cordray, and Phillips (JMR) (Entered: 12/12/1995) Runner 12/07/1995 Routed admission request to admission clerk on behalf of attys Bovee and Olson (JMR) (Entered: 12/12/1995) Runher 01/03/1996 PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of plaintiff by atty., Ralph Anthony Mittelberger (1 pg) (JMR) (Entered: 01/03/1996) PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of	Availability	Date	No.	Proceeding Text
Runner 12/07/1995 Phillips (JMR) (Entered: 12/12/1995) Runner 12/07/1995 Routed admission request to admission clerk on behalf of attys Bovee and Olson (JMR) (Entered: 12/12/1995) Runher 01/03/1996 2 PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of plaintiff by atty., Ralph Anthony Mittelberger (1 pg) (JMR) (Entered: 01/03/1996) PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of	Runner	<u>1</u> 2/07/1995	1	COMPLAINT - Summons issued. Assigned to Judge X per patent list and referred to Magistrate Judge John M. Mason (7 pgs + attachment) (JMR) (Entered: 12/12/1995)
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Runner 01/03/1996 plaintiff by atty., Monique Leone Cordray (1 pg) (JMR) (Entered: 01/03/1996)	Runner	01/03/1996		PETITION AND ORDER for admission pro hac vice (Clerk Francis E. Dosal) on behalf of plaintiff by atty., Monique Leone Cordray (1 pg) (JMR) (Entered: 01/03/1996)
Runner 04/04/1996 NOTICE OF DISMISSAL as to parties Toshiba America Electronic Components, Toshiba America Info Systems, Toshiba America Inc, Toshiba Corporation without prejudice (2 pgs) (JMR) (Entered: 04/05/1996)	Runner	04/04/1996	4	Info Systems, Toshiba America Inc, Toshiba Corporation without prejudice (2 pgs) (JMR)
Runner 04/08/1996 5 ORDER (Judge John R. Tunheim / 4/5/96) re extend time to affect service of the complaint on dft IBM to 5/6/96 (cc: all counsel) (1 pg) (SJH) (Entered: 04/08/1996)	Runner	04/08/1996		
Runner 05/07/1996 6 ORDER (Judge John R. Tunheim / 5/6/96) extending time to 5/21/96 for service of complaint on deft., IBM (cc: all counsel) (1 pg) (JMR) (Entered: 05/07/1996)	Runner	05/07/1996	6	
Runner 05/15/1996 7 NOTICE OF DISMISSAL as to party IBM Corporation without prejudice (2 pgs) (JMR) (Entered: 05/16/1996)	Runner	05/15/1996		

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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents

Terms: patno=5056892 (Edit Search | Suggest Terms for My Search)

472621 (07) 5056892 October 15, 1991

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5056892

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Link to Claims Section

October 15, 1991

Totally internally reflecting thin, flexible film

REEXAM-LITIGATE:

NOTICE OF LITIGATION

NOTICE OF LITIGATION Minnesota Mining v. Toshiba Corporation, et al, Filed Dec. 7, 1995, D.C. Minnesota, Doc. No. 4-95 civil 911

REISSUE: July 10, 2003 - Reissue Application filed Ex. Gp.: 2873; Re. S.N. 10/616,530 (O.G. March 29, 2005)

INVENTOR: Cobb, Jr., Sanford - St. Mary's Point, Minnesota, United States (US)

APPL-NO: 472621 (07)

FILED-DATE: January 30, 1990

GRANTED-DATE: October 15, 1991

ASSIGNEE-AT-ISSUE: Minnesota Mining and Manufacturing Company, Saint Paul, Minnesota, United

States (US), 02

ASSIGNEE-AFTER-ISSUE: June 2, 2003 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427 ST. PAUL MINNESOTA 55133-3427,

Reel and Frame Number: 14120/0171

July 10, 2003 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427 ST. PAUL MINNESOTA 55133-3427, Reel and Frame Number: 14305/0059

LEGAL-REP: Griswold, Gary L.; Kirn, Walter N.; Buckingham, Stephen W.

PUB-TYPE: October 15, 1991 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US).

REL-DATA:

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command: us5056892/pn

** SS 3: Results 1

Search statement 4

Query/Command : prt fu legalall max

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PLUSPAT - @QUESTEL-ORBIT - image
        US5056892 A 19911015 [US5056892]
        (A) Totally internally reflecting thin, flexible film
ΤI
        (A) MINNESOTA MINING & MFG (US)
PA
       Minnesota Mining and Manufacturing Company, Saint Paul MN [US]
PA0 -
IN
        (A) COBB JR SANFORD (US)
        US47262190 19900130 [1990US-0472621]
AP
                  US218087 19880712 [1988US-0218087]
FD
        Cont. of
                   US903655 19860905 [1986US-0903655] (Abandoned)
        Cont. of
        US819118 19860115 [1986US-0819118] (Abandoned)
        C.I.P. of US799869 19851121 [1985US-0799869] (Abandoned)
        Continuation of: US4906070
PR
        US21808788 19880712 [1988US-0218087]
        US47262190 19900130 [1990US-0472621]
        US79986985 19851121 [1985US-0799869]
        US81911886 19860115 [1986US-0819118]
        (A) G02B-005/04 G02B-005/124 G02B-005/136
TC
EC
        F24J-002/06D
        F24J-002/10B
        G02B-005/12
        G02B-005/16C2
        G02B-006/00L8
        G02B-006/10
        G02B-006/20
ICO -
        R21V-005/00H
        R21V-008/00D
        S02B-006/24
        ORIGINAL (O): 359831000; CROSS-REFERENCE (X): 359528000
PCL -
359546000
DT -
        Basic
        US2175067; US2218227; US2232551; US2248638; US2279555; US2723919;
CT -
        US3288990; US3689346; US3908056; US4118763; US4120565; US4154219;
        US4235515; US4244683; US4260220; US4389085; US4422719; US4466697;
        US4497860; US4576850; US4615579; GB2127344
STG -
        (A) United States patent
        A thin, flexible film made of a transparent polymeric material
AB -
        including a structured surface and an opposite smooth surface,
        wherein light striking either surface, within certain angular
        ranges, is totally internally reflected. The structured surface
        includes a linear array of miniature substantially right angled
```

isosceles prisms arranged side-by-side to form a plurality of peaks and grooves. In addition, the perpendicular sides of the prims make an angle of approximately 45 DEG with the smooth surface, and when the film is curled the smooth surface lies in a smooth continuous arcuate curve without materially affecting the performance of the film. Because of the film's flexibility and its ability to totally internally reflect light, it may be utilized in a variety of ways, for example, as a collector of solar energy or as a light conduit. The performance of the film may be manipulated to permit controlled light leakage.

1 / 1 LGST - @EPO

PN - US5056892 A 19911015 [US5056892]

AP - US47262190 19900130 [1990US-0472621]

ACT - 20030602 US/AS-A

ASSIGNMENT

OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;

EFFECTIVE DATE: 20030520

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: 3M COMPANY (FORMERLY MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF DELAWARE; REEL/FRAME: 014120/0171

20030710 US/AS-A

ASSIGNMENT

OWNER: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427ST.;

EFFECTIVE DATE: 20030520

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: 3M COMPANY (FORMERLY MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF THE STATE DELAWARE; REEL/FRAME: 014305/0059

20050329 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030710

UP - 2005-16

1 / 1 CRXX - @CLAIMS/RRX

AN - 2190521

PN - 5,056,892 A 19911015 [US5056892]

PA - 3M Innovative Properties Co

PT - M (Mechanical)

ACT - 20030602 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: 3M COMPANY (FORMERLY MINNESOTA MINING AND MANUFACTURING

COMPANY), A CORPORATION OF DELAWARE DATE SIGNED: 05/20/2003

Assignee: 3M INNOVATIVE PROPERTIES COMPANY P.O. BOX 33427 ST. PAUL

MINNESOTA 55133-3427

Reel 014120/Frame 0171

Contact: 3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427 ST. PAUL,

MN 55133-3427

20030710 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: 3M COMPANY (FORMERLY MINNESOTA MINING AND MANUFACTURING COMPANY), A CORPORATION OF THE STATE DELAWARE, DATE SIGNED:

05/20/2003

Assignee: 3M INNOVATIVE PROPERTIES COMPANY, P.O. BOX 33427, ST. PAUL, MINNESOTA, 55133-3427

Reel 014305/Frame 0059

Contact: OFFICE OF INTELLECTUAL PROPERTY COUNSEL, STEPHEN W. BUCKINGHAM, 3M INNOVATIVE PROPERTIES COMPANY, ST. PAUL, MINNESOTA 55133-3427

20030710 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050329
REISSUE REQUEST NUMBER: 10/616530
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2873

Reissue Patent Number:

UP - 2003-51 UACT- 2005-03-29 URAS- 2004-03-02

Search statement 4

Query/Command: fam us5056892/pn

1 Patent Groups
** SS 4: Results 35

Search statement 5

Query/Command : famstate nonstop

1 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - AR245987 A1 19940330 [AR-245987]

STG - (A1) Patent

TI - (A1) A TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM
OTI - (A1) PELICULA DELGADA Y FLEXIBLE, DE MATERIAL POLIMERICO Y
CONDUCTO PARA TRANSPORTAR LUZ QUE LA COMPRENDE.

PA - (A1) MINNESOTA MINING AND MFG AND C

IC - (A1) G02B-005/04 G02B-005/124 G02B-006/00 G02B-027/00

LA - SPANISH (SPA)

AP - AR30598686 19861121 [1986AR-0305986] **PR** - US79986985 19851121 [1985US-0799869]

EC - F24J-002/06D G02B-005/12 G02B-005/16C2 G02B-006/10 ICO - R21V-005/00H R21V-008/00D S02B-006/24 UP - 2004-40

2 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - AT101924 T 19940315 [ATE101924]

STG - (T) EP Patent valid in AT

OTI - (T) LICHTLEITER MIT TOTALER INTERNER REFLEXION.

PA - (T) MINNESOTA MINING & MFG (US)

IN - (T) COBB SANFORD JR C O MINNESOTA; MANUFACTURING COMPANY HUDSON R

IC - (T) G02B-006/10
LA - ENGLISH (ENG)

 AP
 AT86309051T
 19861119
 [1986AT-0309051]

 PR
 EP86309051
 19861119
 [1986EP-0309051]

 US81911886
 19860115
 [1986US-0819118]

1 / 1 LEGALI - ©EPO

PN - AT101924 T 19940315 [ATE101924]

AP - AT86309051T 19861119 [1986AT-0309051]

ACTE- 19950115 AT/UEP-T [+]

PUBLICATION OF TRANSLATION OF EUROPEEN PATENT SPECIFICATION

20040815 AT/REN-T [-]

CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE

UP - 2004-34

3 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - AU6457686 A 19870528 [AU8664576]

STG - (A) Open to public inspection

TI - (A) PRISMATIC REFLECTING FILM

PA - (A) MINNESOTA MINING & MFG

IN - (A) COBB SANFORD JR

IC - (A) G02B-005/136

PN2 - AU582283 B2 19890316 [AU-582283]

STG2- (B2) Patent preceded by A1

TI2 - (B2) PRISMATIC REFLECTING FILM

PA2 - (B2) MINNESOTA MINING & MFG

IN2 - (B2) COBB SANFORD JR

IC2 - (B2) G02B-005/136 G02B-006/00 G02B-006/10

AP - AU6457686 19861031 [1986AU-0064576]

PR - US79986985 19851121 [1985US-0799869]

EC - F24J-002/06D G02B-005/12

G02B-005/16C2

G02B-006/10

ICO - R21V-005/00H

R21V-008/00D

S02B-006/24

4 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - AU6457786 A 19870716 [AU8664577]

STG - (A) Open to public inspection

TI - (A) LIGHT CONDUIT

PA - (A) MINNESOTA MINING & MFG

IN -(A) COBB SANFORD JR IC -(A) G02B-006/00 G02B-006/10 PN2 -AU582481 B2 19890323 [AU-582481] STG2-(B2) Patent preceded by A1 TI2 -(B2) LIGHT CONDUIT PA2 -(B2) MINNESOTA MINING & MFG IN2 -(B2) COBB SANFORD JR IC2 -(B2) G02B-006/10 AP -AU6457786 19861031 [1986AU-0064577] PR -US81911886 19860115 [1986US-0819118] 5 / 35 PLUSPAT - @QUESTEL-ORBIT PN -BR8605708 A 19870818 [BR8605708] STG -(A) Patent Application OTI -(A) FILME FLEXIVEL DELGADO FORMADO DE UM MATERIAL POLIMERICO TRANSPARENTE E CONDUTO DE LUZ PA -(A) MINNESOTA MINING & MFG (US) IN -(A) COBB SANFORD JR IC -(A) C08G-063/62 C08J-005/18 BR8605708 19861119 [1986BR-0005708] AΡ PR US79986985 19851121 [1985US-0799869] EC F24J-002/06D G02B-005/12 G02B-005/16C2 G02B-006/10 ICO -R21V-005/00H R21V-008/00D S02B-006/24 1 / 1 LEGALI - ©EPO BR8605708 A 19870818 [BR8605708] PN -BR8605708 19861119 [1986BR-0005708] AP -ACTE-19950131 BR/FC-A [-] GRANT REFUSED 19950523 BR/CKFC-A APPEAL AGAINST REFUSAL 19960730 BR/FG-A [+] LETTER PATENT GRANTED 2003-22 ΠP 6 / 35 PLUSPAT - @QUESTEL-ORBIT PN -BR8605709 A 19870818 [BR8605709] STG -(A) Patent Application

OTI - (A) CONDUTO DE LUZ, LUMINARIA E LUZ DE ADVERTENCIA

PA - (A) MINNESOTA MINING & MFG (US)

IN - (A) COBB SANFORD JR

IC - (A) G02B-006/10

AP - BR8605709 19861119 [1986BR-0005709] **PR** - US81911886 19860115 [1986US-0819118]

7 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - CA1268969 A1 19900515 [CA1268969]

STG - (A1) Patent.

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(A1) TOTALLY INTERNALLY REFLECTING LIGHT CONDUIT
TT -
        (A1) GUIDE DE LUMIERE A REFLEXION INTERNE TOTALE
OTI -
        (A1) MINNESOTA MINING & MFG
PA -
IN -
        (A1) COBB SANFORD JR
IC
        (A1) G02B-006/00
LA -
        ENGLISH (ENG)
AP -
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        US81911886 19860115 [1986US-0819118]
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8 / 35
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        (C) TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM
TI -
        (C) PELLICULE MINCE ET SOUPLE REFLECHISSANT INTEGRALEMENT VERS
OTI -
L'INTERIEUR
        (C) MINNESOTA MINING & MFG (US)
        (C) COBB SANFORD JR (US)
IN -
IC -
        (C) G02B-005/124
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        ENGLISH (ENG)
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        CA521320 19861024 [1986CA-0521320]
        US79986985 19851121 [1985US-0799869]
PR -
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        F24J-002/06D
        G02B-005/12
        G02B-005/16C2
        G02B-006/10
ICO -
        R21V-005/00H
        R21V-008/00D
        S02B-006/24
9 / 35
       PLUSPAT - @QUESTEL-ORBIT
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OTI -
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PA -
IN -
        (D1) COBB JR C O MINNESOTA MINING A (US)
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        S02B-006/24
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19940421 DE/8364-A [+]

NO OPPOSITION DURING TERM OF OPPOSITION

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UP -
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2 / 2 LEGALI - ©EPO

PN -EP0225123 A2 19870610 [EP-225123]EP0225123 A3 19890719

[EP-225123]EP0225123 B1 19930324 [EP-225123]

AP -EP86309049 19861119 [1986EP-0309049]

ACTE-19870610 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

DE FR GB IT NL SE

19890719 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

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19900307 EP/17P-A [+]

REQUEST FOR EXAMINATION FILED

EFFECTIVE DATE: 19900102

19911121 EP/17Q-A [+]

FIRST EXAMINATION REPORT

EFFECTIVE DATE: 19911007

19930113 EP/ITF-A [+]

IT: TRANSLATION FOR A EP PATENT FILED

OWNER: BARZANO' E ZANARDO ROMA S.P.A.

19930324 EP/AK-A [+]

DESIGNATED CONTRACTING STATES:

DE FR GB IT NL SE

19930429 EP/REF-A

CORRESPONDS TO:

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FR: TRANSLATION FILED

19940316 EP/26N-A [+]

NO OPPOSITION FILED

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86309049.4 [-86309049.4]

20020101 EP/REG-A; GB/IF02 [+]

GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01

<GB>

2003-22 UP -

10 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - DE3689668 D1 19940331 [DE3689668]

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(D1) MINNESOTA MINING & MFG (US) PA -

IN -(D1) COBB SANFORD (US)

IC -(D1) G02B-006/10

DE3689668 T2 19940929 [DE3689668] PN2 -

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(T2) Lichtleiter mit totaler interner Reflexion.

(T2) MINNESOTA MINING & MFG (US) PA2 -

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PR -
1 / 1
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AP -
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11 / 35 PLUSPAT - @QUESTEL-ORBIT
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        (DO) MINNESOTA MINING & MFG (US)
PA -
        (D0) COBB JR SANFORD
IN -
        (D0) F21V-008/00 G02B-006/00
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υΡ –
        2004-15
12 / 35 PLUSPAT - ©QUESTEL-ORBIT - image
PN - EP0225123 A2 19870610 [EP-225123]
STG -
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TI -
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OTI -
        (A2) Film mince flexible à réflexion interne totale.
PA -
        (A2) MINNESOTA MINING & MFG (US)
        (A2) COBB SANFORD JR C O MINNESOTA
IN -
IC -
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PN2 - EP0225123 A3 19890719 [EP-225123]
STG2-
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TI2 - (A3) A TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM
IC2 -
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PN3 - EP0225123 B1 19930324 [EP-225123]
STG3-
       (B1) Patent
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(B1) A TOTALLY INTERNALLY REFLECTING THIN, FLEXIBLE FILM

TI3 -

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        G02B-005/16C2
        G02B-006/10
ICO -
        R21V-005/00H
        R21V-008/00D
        S02B-006/24
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1 / 1
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        EFFECTIVE DATE: 19911007
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        GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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13 / 35 PLUSPAT - @QUESTEL-ORBIT - image
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        (A2) Pub. Of applic. Without search report
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        (A2) A totally internally reflecting light conduit.
OTI -
        (A2) Lichtleiter mit totaler interner Reflexion.
        (A2) Conduit de lumière à réflexion interne totale.
PA -
        (A2) MINNESOTA MINING & MFG (US)
IN· -
        (A2) COBB SANFORD JR C O MINNESOTA
IC -
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PN2 -
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STG2-
TI2 -
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IC2 -
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PN3 -
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TI3 -
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        (B1) Lichtleiter mit totaler interner Reflexion.
OTI3-
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PA3 -
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TN3 -
        (B1) COBB SANFORD JR C O MINNESOTA (US)
IC3 -
        (B1) G02B-006/10
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        G02B-006/10
        G02B-006/20
ICO -
        S02B-006/24
DS -
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DТ
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1 / 2
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AΡ
ACTE-
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        DEFINITIVE PROTECTION
        (EP 235447 - [EP-235447] )
ΙIP
        2003-22
2 / 2
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        EP0235447 A2 19870909 [EP-235447]EP0235447 A3 19890125
        [EP-235447]EP0235447 B1 19940223 [EP-235447]
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        19890125 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        AT BE DE ES FR GB IT NL SE
        19890913 EP/17P-A [+]
        REQUEST FOR EXAMINATION FILED
        EFFECTIVE DATE: 19890719
        19920108 EP/17Q-A [+]
        FIRST EXAMINATION REPORT
        EFFECTIVE DATE: 19911128
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19931220 EP/ITF-A [+] IT: TRANSLATION FOR A EP PATENT FILED OWNER: BARZANO' E ZANARDO ROMA S.P.A. 19940223 EP/REF-A CORRESPONDS TO: (AT 101924T 19940315 [ATE101924]) 19940223 EP/AK-A [+] DESIGNATED CONTRACTING STATES: AT BE DE ES FR GB IT NL SE 19940331 EP/REF-A CORRESPONDS TO: (DE 3689668 19940331 [DE3689668]) 19940416 EP/REG-A; ES/FG2A ES: DEFINITIVE PROTECTION (ES 2049209T3 [ES2049209]) 19940520 EP/ET-A [+] FR: TRANSLATION FILED 19950131 EP/EAL-A [+] SE: EUROPEAN PATENT IN FORCE IN SWEDEN 86309051.0 [-86309051.0] 19950215 EP/26N-A [+] NO OPPOSITION FILED 20000717 EP/EUG-A [-] SE: EUROPEAN PATENT HAS LAPSED 86309051.0 [-86309051.0] 20020101 EP/REG-A; GB/IF02 [+] GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01 <GB> 20040531 EP/BERE-A [-] BE: LAPSED OWNER: *MINNESOTA MINING AND MFG CY; EFFECTIVE DATE: 20031130 UP -2004-45 14 / 35 PLUSPAT - @QUESTEL-ORBIT PN - ES2003516 A6 19881101 [ES2003516] (A6) Pat. Granted without search report STG -OTI -(A6) PELICULA FLEXIBLE DELGADA DE MATERIAL POLIMERICO TRANSPARENTE , PARTICULARMENTE POLICARBONATO O MATERIAL ACRILICO, Y CONDUCTO DE TRANSPORTE DE LUZ CORRESPONDIENTE. (A6) MINNESOTA MINING & MFG (US) (A6) COBB JR SANFORD (A6) G02B-005/124 G02B-006/00 ES8603080 19861118 [1986ES-0003080] PR -US79986985 19851121 [1985US-0799869] F24J-002/06D G02B-005/12 G02B-005/16C2 G02B-006/10

IN

IC

AΡ

EC

ICO -

R21V-005/00H R21V-008/00D

S02B-006/24 2000-08 UP 1 / 1 LEGALI - ©EPO ES2003516 A6 19881101 [ES2003516] ES8603080 19861118 [1986ES-0003080] AP -19920101 ES/SA6-A THE EXPIRATION DATE (SNAPSHOT 920101) IS A6 2006-11-18 **υթ** -2003-22 15 / 35 PLUSPAT - @QUESTEL-ORBIT ES2049209 T3 19940416 [ES2049209] (T3) Transl. Compl. Txt. Of grted Eur. Pat. (T3) UN CONDUCTO DE LUZ TOTALMENTE REFLECTOR POR DENTRO. (T3) MINNESOTA MINING & MFG (T3) COBB SANFORD JR C O MINNESOTA (US) IN -IC -(T3) G02B-006/10. AP -ES86309051T 19861119 [1986ES-0309051] PR -US81911886 19860115 [1986US-0819118] **UP** -2000-08 1 / 1 LEGALI - ©EPO PN -ES2049209 T3 19940416 [ES2049209] AP -ES86309051T 19861119 [1986ES-0309051] ACTE-19940416 ES/FG2A-T DEFINITIVE PROTECTION (EP 235447 - [EP-235447]) TIP -2003-22 16 / 35 PLUSPAT - @QUESTEL-ORBIT HK47395 A 19950407 [HK9500473] STG -(A) UK patents registered (A) A totally internally reflecting light conduit. TI -PA -(A) MINNESOTA MINING & MFG (US) IN -(A) COBB SANFORD JR (US) IC -(A) G02B-006/10 AP -HK47395 19950330 [1995HK-0000473] PR -US81911886 19860115 [1986US-0819118] 1 / 1 LEGALI - ©EPO HK47395 A 19950407 [HK9500473] PN -AP -HK47395 19950330 [1995HK-0000473] 20041215 HK/PF-A [+] ACTE-PATENT IN FORCE 2005-25 ITP -17 / 35 PLUSPAT - @QUESTEL-ORBIT PN - HK47595 A 19950407 [HK9500475]

STIC EIC 2800 Darcy Bates 272-2540

(A) A totally internally reflecting thin, flexible film.

(A) UK patents registered

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(A) MINNESOTA MINING & MFG (US)
PA -
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TN
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        G02B-005/12
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        G02B-006/10
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1 / 1
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18 / 35 PLUSPAT - @QUESTEL-ORBIT
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PA -
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IC2 -
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19 / 35 PLUSPAT - ©QUESTEL-ORBIT - image
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PN -
STG -
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TI -
        (A) THIN DEFORMABLE FILM
PA -
        (A) MINNESOTA MINING & MFG
PA0 -
        (A) MINNESOTA MINING & MFG CO <3M>
IN -
        (A) COBB JR SANFORD
IC -
        (A) G02B-005/04 G02B-005/08
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JP11328697 19970327 [1997JP-0113286]

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S02B-006/24

20 / 35 PLUSPAT - ©QUESTEL-ORBIT - image JP10068804 A 19980310 [JP10068804] STG -(A) Doc. Laid open to publ. Inspec. TI -(A) THIN DEFORMATIVE FILM (A) MINNESOTA MINING & MFG PA (A) MINNESOTA MINING & MFG CO <3M> PAO -(A) COBB JR SANFORD IN -(A) G02B-005/04 G02B-005/08 IC JP11328797 19970327 [1997JP-0113287] AΡ US79986985 19851121 [1985US-0799869] F24J-002/06D G02B-005/12 G02B-005/16C2 G02B-006/10 ICO -R21V-005/00H R21V-008/00D

21 / 35 PLUSPAT - ©QUESTEL-ORBIT - image JP2001311808 A 20011109 [JP2001311808] (A) Doc. Laid open to publ. Inspec. (A) THIN DEFORMABLE FILM TI -PA -(A) MINNESOTA MINING & MFG PA0 -(A) MINNESOTA MINING & MFG CO <3M> IN -(A) COBB JR SANFORD IC (A) G02B-005/02 AΡ JP2001096666 20010329 [2001JP-0096666] US79986985 19851121 [1985US-0799869] PR -F24J-002/06D EC G02B-005/12 G02B-005/16C2 G02B-006/10 ICO -R21V-005/00H R21V-008/00D S02B-006/24 IΠ 2001-51

PN -JP2003227910 A 20030815 [JP2003227910] STG -(A) Doc. Laid open to publ. Inspec. (A) THIN, FLEXIBLE FILM TI -(A) MINNESOTA MINING & MFG PA IN (A) COBB JR SANFORD IC -(A) G02B-005/04 G02B-005/08 G02B-006/00 AΡ JP2003015219 20030123 [2003JP-0015219] PR -US79986985 19851121 [1985US-0799869] EC -F24J-002/06D G02B-005/12 G02B-005/16C2

22 / 35 PLUSPAT - @QUESTEL-ORBIT - image

G02B-006/10 R21V-005/00H R21V-008/00D S02B-006/24 UP - 2003-36

23 / 35 PLUSPAT - ©QUESTEL-ORBIT - image PN - JP2004326127 A 20041118 [JP2004326127] STG -(A) Doc. Laid open to publ. Inspec. TI -(A) THIN TRANSFORMABLE FILM PA (A) MINNESOTA MINING & MFG IN (A) COBB JR SANFORD (A) F24J-002/10 G02B-005/04 IC JP2004170887 20040609 [2004JP-0170887] AΡ US79986985 19851121 [1985US-0799869] PR F24J-002/06D EC G02B-005/12 G02B-005/16C2 G02B-006/10 ICO -R21V-005/00H R21V-008/00D S02B-006/24

UP - 2004-52

24 / 35 PLUSPAT - @QUESTEL-ORBIT JP62165603 A 19870722 [JP62165603] STG -(A) Doc. Laid open to publ. Inspec. (A) PHOTO INDUCTION TUBE PA -(A) MINNESOTA MINING & MFG (A) SANFUOODO KOBU JIYUNIA IN -(A) G02B-006/00 IC -JP2628858 B2 19970709 [JP2628858] PN2 -(B2) Grant. Pat. With A from 2500000 on STG2-IC2 -(B2) G02B-006/00 AP -JP27778986 19861120 [1986JP-0277789] US81911886 19860115 [1986US-0819118] PR -

JP62144102 A 19870627 [JP62144102] STG -(A) Doc. Laid open to publ. Inspec. TI -(A) THIN ELASTIC FILM · PA -(A) MINNESOTA MINING & MFG (A) SANFUOODO KOBU JIYUNIA IN -IC -(A) G02B-005/04 PN2 -JP2670518 B2 19971029 [JP2670518] (B2) Grant. Pat. With A from 2500000 on STG2-(B2) G02B-005/04 IC2 -JP27779086 19861120 [1986JP-0277790] AP -US79986985 19851121 [1985US-0799869] PR -F24J-002/06D EC G02B-005/12 G02B-005/16C2 G02B-006/10 ICO -R21V-005/00H R21V-008/00D S02B-006/24

25 / 35 PLUSPAT - @QUESTEL-ORBIT

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26 / 35 PLUSPAT - @QUESTEL-ORBIT - image
PN - JP2000137105 A 20000516 [JP2000137105]
        (A) Doc. Laid open to publ. Inspec.
TI -
         (A) THIN, DEFORMABLE FILM
PA -
         (A) MINNESOTA MINING & MFG
        (A) MINNESOTA MINING & MFG CO <3M>
PA0 -
IN -
        (A) COBB JR SANFORD
IC -
         (A) G02B-005/02 G02B-006/00 G02B-006/10
        JP3262230 B2 20020304 [JP3262230]
PN2 -
STG2-
        (B2) Grant. Pat. With A from 2500000 on
         (B2) F21V-008/00 G02B-006/00
        JP32447399 19991012 [1999JP-0324473]
US79986985 19851121 [1985US-0799869]
AP -
PR -
EC -
        F24J-002/06D
        G02B-005/12
        G02B-005/16C2
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ICO -
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        R21V-008/00D
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UP -
        2000-26
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27 / 35 PLUSPAT - ©QUESTEL-ORBIT

PN - KR9503434 B1 19950412 [KR9503434]

STG - (B1) Examined pat. App. (2nd pub.) B5

TI - (B1) TOTALLY INTERNALLY REFLECTING THIN FLEXIBLE FILM

PA - (B1) MINNESOTA MINING & MFG (US)

IN - (B1) SANFORD JR COBB (US)

IC - (B1) G02B-005/124 G02B-006/00

AP - KR8609868 19861120 [1986KR-0009868] **PR** - US79986985 19851121 [1985US-0799869]

EC - F24J-002/06D G02B-005/12

G02B-005/16C2

G02B-006/10

ICO - R21V-005/00H R21V-008/00D

S02B-006/24

28 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - KR9503436 B1 19950412 [KR9503436]

STG - (B1) Examined pat. App. (2nd pub.) B5

TI - (B1) TOTALLY INTERNALLY REFLECTING LIGHT CONDULT

PA - (B1) MINNESOTA MINING & MFG (US)

IN - (B1) SANFORD JR COBB (US)

IC - (B1) G02B-006/10

AP - KR8609802 19861120 [1986KR-0009802] **PR** - US81911886 19860115 [1986US-0819118]

29 / 35 PLUSPAT - @QUESTEL-ORBIT

PN - MX168138 B 19930506 [MX-168138]

STG - (B) Granted patent

OTI - (B) PELICULA FLEXIBLE Y DELGADA, FORMADA DE UN MATERIAL POLIMERICO

PA - (B) MINNESOTA MINING & MFG (US)

IN - (B) COBB SANFORD JR (US)

TC (B) F24J-002/18MX424786 19861103 [1986MX-0004247] AP -US79986985 19851121 [1985US-0799869] PR -F24J-002/06D G02B-005/12 G02B-005/16C2 G02B-006/10 ICO -R21V-005/00H R21V-008/00D S02B-006/24 30 / 35 PLUSPAT - @QUESTEL-ORBIT MX170423 B 19930823 [MX-170423] (B) Granted patent STG -(B) CONDUCTO PARA TRANSPORTAR O DISTRIBUIR LA LUZ OTI -(B) MINNESOTA MINING & MFG (US) PA -IN -(B) COBB SANFORD JR (US) (B) G02B-023/00 MX424886 19861103 [1986MX-0004248] AP -US81911886 19860115 [1986US-0819118] PR -31 / 35 PLUSPAT - @QUESTEL-ORBIT PN - NO864631 DO 19861120 [NO8604631] STG -(D0) Application filed OTI -(DO) HUL, ROERFORMET LYSLEDNING. **PA** - . (DO) MINNESOTA MINING & MFG (US) IN - (D0) COBB SANFORD IC - (D0) F21V PN2 - NO864631 A 19870522 [NO8604631] STG2- (A) Unex. Applic. Open to public inspec OTI2- (A) HUL, ROERFORMET LYSLEDNING. (A) MINNESOTA MINING & MFG (US) PA2 -IN2 -(A) COBB SANFORD IC2 -(A) F21V PN3 -NO173797 B 19931025 [NO-173797] STG3-(B) Examined application (B) HUL, ROERFORMET LYSLEDNING OTI3-(B) MINNESOTA MINING & MFG (US) PA3 -IN3 -(B) COBB JR SANFORD IC3 -(B) F21V-008/00 G02B-006/00 NO173797 C 19940202 [NO-173797] STG4-(C) Granted patent OTI4-(C) Hul, roerformet lysledning PA4 -(C) MINNESOTA MINING & MFG (US) IN4 -(C) COBB SANFORD JR (US) IC4 -(C) F21V-008/00 G02B-006/00 AP -NO864631 19861120 [1986NO-0004631] PR -US79986985 19851121 [1985US-0799869] US81911886 19860115 [1986US-0819118]

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PN - N0864631 D0 19861120 [N08604631]N0864631 A 19870522 [N08604631]N0173797 B 19931025 [NO-173797]N0173797 C 19940202 [NO-173797]

AP - NO864631 19861120 [1986NO-0004631]

ACTE- 20041122 NO/MM1K-A

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PLUSPAT - @QUESTEL-ORBIT
PN -
       NO932336 A 19880522 [NO9302336]
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        (A) BANEMATERIALE FOR EN VEGG I EN LYSLEDER
OTI -
PA -
        (A) MINNESOTA MINING & MFG (US)
        (A) COBB SANFORD
IN -
IC -
       (A) G02B-006/00
PN2 -
       NO932336 DO 19930624 [NO9302336]
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        US81911886 19860115 [1986US-0819118]
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TI -
        (A) MINNESOTA MINING & MFG (US)
PA
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PA0 -
        (A) COBB JR SANFORD (US)
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ICO -
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       US4906070 A 19900306 [US4906070]
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AP -
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        EFFECTIVE DATE: 20030520
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STATE DELAWARE; REEL/FRAME: 014305/0059

UP - 2005-03

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TI -
        (A) MINNESOTA MINING & MFG (US)
PA -
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PA0 -
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       US47262190 19900130 [1990US-0472621]
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DT - Basic
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35 / 35
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        US4805984 A 19890221 [US4805984]
STG -
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PA -
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        US90365786 19860905 [1986US-0903657]
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        S02B-006/24
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• Terms and Connectors Natural Language Easy Search 5056892 or 5,056,892 Suggest Terms for My Search	Use connectors to show relationship between search terms. (Hover over connector for description. Click a connector to add to search.)
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